Title: **JUNIOR ENGINEER**

Salary Code: 23
Effective Date: 01/01/10
FLSA Designation: Exempt

GENERAL DESCRIPTION

Under general direction of the Supervisor of Resources, plans, organizes, directs, controls, and supervises special projects within the District's Resources Division including engineering design and technical work, policy analysis, water projects operations, land acquisition, power, drainage, groundwater, and water conservation.

EXAMPLES OF WORK PERFORMED

The information listed below is meant to serve as samples of the job duties and responsibilities for positions in this classification. This list is neither inclusive nor exclusive, but indicative of several types of duties performed.

1. Plans, organizes, assigns, directs, reviews, and engages in the preparation of various analyses, planning feasibility studies, project development, interpretation and preparation of studies, mitigation plans, environmental documents, designs, specifications, contract and bid documents, estimates, and reports.

2. Assists in the development of the Division's annual budget; reviews expenditures to ensure they remain within prescribed limits; and justifies budget variances.

3. Communicates and is responsible for ensuring compliance with District policies, rules, regulations, and guidelines.

4. Participates in formulating long-range planning goals.

5. Serves as a Project Manager and Engineer on various projects related to land acquisition, groundwater, drainage, power resources, and water conservation.

6. Coordinates, negotiates, and administers engineering and other resources projects, contracts, and agreements.

7. Prepares or reviews environmental studies, documents, and reports.

8. Acts as District representative at meetings, conferences, and hearings of local, State, or Federal agencies.

9. Performs other duties as assigned.

CLASSIFICATION REQUIREMENTS

Education and Experience: A combination of equivalent education and experience that has led to the acquisition of the knowledge required by the position. A typical way of acquiring the knowledge would be:

A bachelor's degree in Civil, Agricultural, or Environmental Engineering, or a related field with course work in planning, design, construction, and operation of water distribution and drainage systems, power generation and conveyance systems, groundwater resources, and water conservation and management.

Knowledge of:

Principles of hydraulic design, hydrology, materials engineering, soil mechanics, and structural engineering.
Engineering mathematics and statistical analysis techniques.
Engineering economics, specifications, and contract procedures.
Water conservation and management practices, including plant-soil-water relationships.
Surface and subsurface drainage principles and practices.
Principles and practices of management, supervision, and budgeting.
Construction methods and materials.
Irrigation principles and practices, including wastewater reuse.
Fundamentals of specification writing and regulations.
Computer technology as applied to engineering work.
Principles and practices of power regeneration and energy conveyance systems.
Engineering principles, practices, and methods of planning design construction, operation, and inspection of water distribution and drainage collection systems.
The use of a PC.

LICENSE, CERTIFICATE, OR CREDENTIAL

Possession of a valid certificate of registration as a Engineer in Training (EIT) issued by the California State Board of Registration for Professional Engineers is required.

WORKING CONDITIONS

Possess physical characteristics to perform the critical and important duties of the job.
Work hours other than normal work schedule.

STANDARD REQUIREMENTS

Possession of a valid Class C California Driver's License with a driving record acceptable to the District's automobile insurance provider is required.